## Remarks

## A. Status of the Claims

Claims 39 and 76 are revised to state the range of the pressure exerted on the mold part as being "from 10 kPa to 350 kPa" and that such pressure "is maintained at least up to the gelling of the liquid coating composition layer." These claims are also revised to define the thickness of the single monolayer coating being "less than 5 µm." Non-limiting support for such revisions can be found in original claims 9 and 22 and in the specification at page 8, lines 20-23.

Claim 58 is revised to change its dependency to claim 39.

Claim 59 is revised to state that the single monolayer coating has a thickness of "1 to less than 5 µm." Non-limiting support for this revision can be found in original claim 22, and in the specification at page 6, lines 29-32.

Claims 51, 60-62, and 82-83 are cancelled.

Claims 84-87 are added, non-limiting support for which can be found in original claims 17 and 19 and in the specification at page 5, lines 1-8 and page 7, lines 5-7.

## B. Obviousness Rejections

## 1. Independent claims 39 and 76

Independent claims 39 and 76, prior to the revisions made above, were rejected under 35 U.S.C. § 103(a) for allegedly being obvious over U.S. Patent 5,512,371 ("Gupta") in view of U.S. Patent 4,417,790 ("Dawson") and alternatively in further view of U.S. Patent 6,562,466 ("Jiang"). Additional obvious rejections were also presented against dependent claims. However, for brevity's sake, Applicant will focus the current arguments on independent claims 39 and 76.

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Applicant respectfully disagrees with the current obvious rejections. However, in an

effort to further the prosecution, independent claims 39 and 76 are further revised in a manner

noted above. Applicant submits that these claims are patentable over the cited art for at least the

following reasons.

Applicant previously discussed the scope and content of Gupta and Jiang in the response

filed July 15, 2011. These discussions are incorporated into the present response by reference.

The Examiner currently relies on Dawson in the following context:

Applicants argue that while Jiang allows for the elimination of a polishing step of the lens, it does so only in the context of depositing at least two layers onto the

surface of the unpolished lens.

Examiner has applied Dawson which teaches the application of a single coating

layer for the purpose of obviating the need to perform polishing steps.

Action at page 11.

The combination of Dawson with Gupta is not an obvious combination. To begin, the

following passage from Applicant's own specification confirms this by describing Dawson in the

following manner:

Although the resulting coating lens becomes transparent using such a coating thickness (...), the fining lines on the lens main face, i.e. the lines resulting from the fine grinding processing step, remain visible in particular when the coated

lens is illuminated by an arc lamp.

Specification at page 2, lines 11-15 (emphasis added). As explained in detail below, this

evidence confirms that Dawson actually teaches away from Applicant's claimed process, which

produces "a coated optical article free of visible fining lines."

Dawson describes a process of forming a coating at the surface of an ophthalmic lens

which leads to satisfactory optical properties despite suppression of the traditional steps of fine

grinding and polishing. This process includes applying a liquid curable coating composition

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formed by the tools employed and diffraction phenomenon. It is taught that a coating thickness

of around 10 times the surface roughness is sufficient:

By such means, the surface roughness of the machined lens surface, whether glass or plastic, may be smoothly covered with the coating material to eliminate the

effect of light scattering and afford optimum transparency. [col. 1, lines 55-59]

More specifically, it is an object of the invention to provide optically clear finishes on machined lens surfaces without the need for lens polishing operations.

[col. 1, lines 40-42]

To this end, the present invention eliminates the traditional final steps of fine grinding and polishing and, instead, dips, sprays, spin coats, doctors or otherwise

applies an optically clear coating 14 to surface 12. [col. 2, lines 21-25]

It has been determined that a thickness of coating 14 or 14' (FIGS. 2 and 3) of approximately ten times the depth of machined surface roughness will produce a

finish of optical quality. [col. 3, L. 43-46]

When considering Dawson, it is clear that the technical problem addressed by Applicant

in the present invention is that when a coating is applied according to a method described in

Dawson (namely a spin coating technique, or a flow coating technique) on a rough surface even

after surfacing and fine grinding, there are still fining marks visible at the arc lamp, even if the

coating thickness is considerably increased for the purpose of covering the fining lines. Indeed,

this is clearly demonstrated in Applicant's specification at Example 1 versus comparative

Example 1 (spin coating) and Example 3 versus comparative Example 4 (flow coating) where the

same coating is used. The following Table 1 from Applicant's specification is provided below

for the Examiner's convenience:

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TABLE 1

Ex	Leas mæerisis	Fining process	Surface roughness (Rq)	Haze before coating	Coating refractive insex a <sub>D</sub>		Thickness of coasing		Fining mark in are Isop
En. 1	CR-39	V-95 + 15 pm fining (2 min)	0.3787 [µm]	89.8	1.518	Press coating	-5 шт	9.37	No
6x. 2	CR-39	V-95 + 15 pm fining (2 min)	0.3943 [sun]	89.8	1.532	Press coating	~5 ;uss	1.50	No
Coun. I	CR-39	V-95 + 15 jan fining (2 mm)	0.3758 [jun]	89.8	1.518	Spin coating	~25 µm	0.35	Yes
Сон. 2	CR-39	V-95 + 15 pm fining. (2 min)	0.3831 [µm]	89,8	1.57	Press coating		5.70	3.68
Ex. 3	PC	V-95 + 15 µm fining (2 min)	0.2689 [µm]	83.1	1.57	Press coating	****	1.17	No
Сопь. 3	PC	V-95 + 15 pm fining (2 mm)	9.2381 [pard]	83.1	1.518	Spin conting	****	2.40	Yes
Сот. 4	PC.	V-95 + 15 µm fining (2 min)	0.2163 [µm]	83.1	1.57	Flow	>25 µma	1.15	Yes

As illustrated above in Table 1 of Applicant's specification, Example 1 and comparative Example 1 are directly comparable because only the deposition process of the coating differs between the two examples (except for a very slight variation of Rq which is insignificant). Even if the thickness of the coating in comparative Example 1 is more than 60 times higher than the roughness (which is actually the roughness of a surface which has been subjected to grinding and fine grinding), fining marks are visible at the Arc lamp.

Given that the Dawson process does not work in a manner claimed by Applicant (as demonstrated by comparative Example 1 above), there is no apparent reason/motivation for combining Dawson with either Jiang and/or Gupta in hopes of achieving the results obtained by Applicant's claimed process. Rather, a person of ordinary skill in the art would not have attempted to apply the teachings of Dawson in the process of Gupta because that there was no reasonable expectation of success that such combination would work—i.e., visible lines would have resulted in view of the evidence of record and discussed in Applicant's own specification.

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Indeed, Dawson's process fails due to the use of spin coating. However, the skilled

person cannot reach this conclusion by an objective reading of the cited art. Rather, Applicant

surprisingly discovered that applying a single monolayer coating through the claimed "press

coating" process effectively suppresses visible fining lines.

Further, in Example 6 of the Applicant's specification, the thickness of the final coating

is only 1 to 2 microns for a roughness of 0.3787 microns and there are no fining marks.

Surprisingly, when using Applicant's claimed coating process, fining marks are suppressed even

if the coating is in a low thickness range (< 5 µm).

Further, and when considering Gupta's disclosure, there is no clear indication of what

would be the resulting thickness of the cured attached portion in Gupta. It is submitted that the

thickness would be rather high and outside of Applicant's claimed range. This reasoning is

supported by the following passage from Gupta, which describes the use of minimal pressure for

a particular purpose of simply squeezing out excess resin material:

The resin mixture is then dispensed into the mold. A lens preform made from polycarbonate of bisphenol A is placed on top of the resin-filled mold and slight pressure is applied to squeeze out excess resin material until a carrier layer of

sufficient thickness is obtained. The weight of the lens preform and capillary action of the resin material are sufficient to hold the assembly together without

use of a conventional optical gasket.

Gupta at col. 8, lines 6-14. This technique described in Gupta is of a kind that can be defined as

an overmolding system. Indeed, Jiang, the tertiary reference used by the Examiner to support the

obvious rejection, discusses Gupta in this context at column 2, lines 4-19.

In Applicant's claimed process, by comparison, the pressure is maintained during the

curing operation of the coating, which is believed (without wishing to be bound by any theory) to

allow to fill up the grooves and follow the shrinking of the curing coating if any. This is a

definitive and clear advantage of the process as claimed to operate at low coating thicknesses.

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Therefore, any argument that a person of ordinary skill in the art would modify the process of

Gupta for avoiding deformation of the lens is not relevant.

Indeed, deformation of the lens is caused if too much pressure is applied during transfer.

As such, it is clear that, using no pressure or insignificant pressure (due to the weight of the

lens), Gupta will have no deformation problems to solve and consequently no reason to apply the

teaching of Jiang which defines pressure ranges where there would be no deformation of the

lens

The main purpose of Jiang is first to make a coated lens, second to avoid deformation of

the lens on which the transfer is made. It was never said that the technique of Gupta created

deformation of the preform.

2. Dependent claim 58

Dependent claim 58 is further patentable. This claim recites:

The process of claim 39, wherein said main face of the optical article has a

surface roughness Sa of about 1.0 um.

As exhibited in the above claim, the ratio cured coating thickness/initial surface

roughness is < 5. This ratio is in contrast to the ratio suggested in Dawson at column 3, lines 43-

60. Therefore, Dawson further teaches away from the invention in claim 58.

3. Piecemeal Examination

Applicant respectfully submits that it appears the present application is being subjected to

piecemeal examination. The current office action is the fifth action, in which Applicant

previously submitted two Request for Continued Examinations. The first office action was

issued over three years ago on February 11, 2009. The second office action was issued

November 5, 2009. The third office action was issued October 29, 2010. The fourth office

action was issued April 15, 2011. The fifth office action, which is the present Action, was issued

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October 11, 1011. Despite all of these office actions for the past three years, the Examiner is

now using for the first time the Dawson reference to support the primary obvious rejection. This

is particularly frustrating in at least two respects. First, Applicant's application specifically

distinguishes Dawson from the present claims (see above and page 2, lines 5-15 of Applicant's

specification). Second, Dawson was submitted in an Information Disclosure Statement filed

November 5, 2007.

Thus, the Patent Office has known about Dawson well-before substantive examination

even started in this case. To use Dawson as a secondary reference at this stage during

prosecution for the first time seems to be, at least in some respect, piecemeal examination.

Further, and as explained above and by Applicant's own specification, Dawson actually teaches

the presence of fining lines, which is in opposite to Applicant's claimed process. Therefore, the

use of Dawson at this late stage seems inappropriate.

C. Conclusion

Applicant requests that all of the obviousness rejections be withdrawn and that this case

proceed to allowance. The Examiner is invited to contact the undersigned Attorney at 512-536-

3020 with any questions, comments or suggestions relating to the referenced patent application.

Respectfully submitted.

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